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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/5[9,812	03/20/2006	Barry J. Byrne	36689.250.	7623	
27683 7590 02/13/2007 HAYNES AND BOONE, LLP			· EXAMINER		
901 MAIN STR	EET, SUITE 3100		WHITEMAN, BRIAN A		
DALLAS, TX 75202			ART UNIT	PAPER NUMBER	
		•	1635		
	·				
SHORTENED STATUTORY	Y PERIOD OF RESPONSE	MAIL DATE	DELIVER	DELIVERY MODE	
21 DAVS		02/13/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)		
Office Action Summary		10/519,812	BYRNE ET AL.		
		Examiner	Art Unit		
		Brian Whiteman	1635		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1)	Responsive to communication(s) filed on				
•	•	action is non-final.	•		
<i>'</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
,	closed in accordance with the practice under E				
Dispositi	on of Claims				
	Claim(s) <u>1,8,9,16,27-36,38,41,45,56 and 58-60</u>	is/are pending in the application	•		
•	4a) Of the above claim(s) is/are withdraw	· · · · · · · · · · · · · · · · · · ·	•		
	Claim(s) is/are allowed.	With Consideration.			
	Claim(s) is/are rejected.				
•	Claim(s) is/are objected to.				
<u>-</u>	Claim(s) 1, 8, 9, 16, 27-36, 38, 41, 45, 56, and	58-60 are subject to restriction a	and/or election requirement.		
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Applicati	on Papers				
9) The specification is objected to by the Examiner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority u	ınder 35 U.S.C. § 119		·		
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a)[☐ All b)☐ Some * c)☐ None of:	have been received			
	1. Certified copies of the priority documents have been received.				
 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage 					
		•	ed in this National Stage		
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachmen	t(s)				
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
2) Notic	2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.				
	3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:				
. upo					

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DETAILED ACTION

Claims 1, 8, 9, 16, 27-36, 38, 41, 45, 56, and 58-60 are pending.

The cancellation of claims 2-7, 10-15, 17-26, 37, 39, 40, 42-44, 46-55, 57, and 61-64 and the amendment to claims 1, 8, and 16 in paper filed 12/28/04 is acknowledged.

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions, which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1, 8, 9, 16, 27-36, 38, 41, and 45, drawn to a recombinant adenoassociated viral vector (rAAV) comprising at least a nucleic acid encoding a biologically active mammalian Factor peptide operably linked to a at least a first promoter.

Group II, claim(s) 56, 58, 59, and 60, drawn to an in vivo method of using a rAAV comprising at least a nucleic acid encoding a biologically active mammalian Factor peptide operably linked to a at least a first promoter.

Group III, claim(s) 56, 58, 59, and 60, drawn to an ex vivo method of using a host comprising a rAAV comprising at least a nucleic acid encoding a biologically active mammalian Factor peptide operably linked to a at least a first promoter.

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The inventions listed as Groups I-III do not relate to a single inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical feature for the following reasons:

37 CFR 1.475(b) states:

"An international or a national stage application containing claims to different categories of invention will be considered to have unity of invention if the claims are drawn only to one of the following combinations of categories:

- (1) A product and a process specially adapted for the manufacture of said product; or
- (2) A product and process of use of said product; or
- (3) A product, a process specially adapted for the manufacture of the said product, and a use of the said product; or
- (4) A process and an apparatus or means specifically designed for carrying out the said process; or
- (5) A product, a process specially adapted for the manufacture of the said product, and an apparatus or means specifically designed for carrying out the said process.

37 CFR 1.475(c) states:

"If an application contains claims to more or less than one of the combination of categories of invention set forth in paragraph (b) of this section, unity of invention might not be present."

37 CFR 1.475(d) also states:

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"If multiple products, processes of manufacture or uses are claimed, the first invention of the category first mentioned in the claims of the application and the first recited invention of each other categories related thereto will be considered as the main invention in the claims, see PCT Article 17(3)(a) and 1.476(c)."

37 CFR 1.475(e) further states:

"The determination whether a group of inventions is so linked as to form a single general inventive concept shall be made without regard to whether the inventions are claimed in separate claims or as alternative within a single claim."

In view of 37 CFR 1.475 (b), 37 CFR 1.475 (c), 37 CFR 1.475 (d), and 37 CFR 1.475 (e), Group I is considered the main invention to the product first mentioned in the claims, and the first recited invention drawn to other categories related thereto, e.g. a method of making, method of use.

The technical feature linking groups I-III appears to be a rAAV comprising at least a nucleic acid encoding a biologically active mammalian Factor peptide operably linked to a at least a first promoter.

However, Thorpe (cited on a PTO-1449) teaches that rAAV can comprise a nucleic acid encoding Factor operably linked to a promoter.

Therefore, the technical feature linking the inventions of groups I-III does not constitute a special technical feature as defined by PCT Rule 13.2, as it does not define a contribution over the prior art.

The special technical feature of Group I is considered to be a rAAV vector.

The special technical feature of Group II is considered to be an in vivo method of delivering factor VII to a mammal using a rAAV vector.

The special technical feature of Group III is considered to be an ex vivo method of delivering factor VII to a mammal using a rAAV vector.

Accordingly, Groups I-III are not so linked by the same or a corresponding technical feature as to form a single general inventive concept.

If applicant elects group I applicant further required to elect a species:

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

a) Factor VII that comprises the following amino acid sequence: SEQ ID NO: 2, 4, 6, 8, 10, 12, 14, 15, or 17.

NOTE: applicant is required to elect one amino acid sequence and the corresponding nucleic acid that encodes the elected amino acid sequence as set forth in claim 16.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

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Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP \$ 809.02(a).

The claims are deemed to correspond to the species listed above in the following manner:

a) claims 8, 16, 27-35

The following claim(s) are generic: claim 1.

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: a) each sequence has a distinct structure.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Whiteman whose telephone number is (571) 272-0764.

The examiner can normally be reached on Monday through Friday from 6:30 to 4:00 (Eastern Standard Time), with alternating Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Douglas Schultz, PhD, SPE – Art Unit 1635, can be reached at (571) 272-0763.

Papers related to this application may be submitted to Group 1600 by facsimile transmission. Papers should be faxed to Group 1600 via the PTO Fax Center. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The Fax Center number is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

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